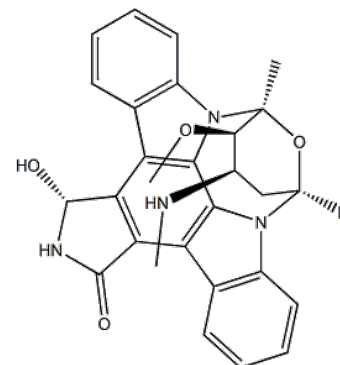


Product Name : UCN-01
Cat. No. : PC-62477
CAS No. : 112953-11-4
Molecular Formula : C₂₈H₂₆N₄O₄
Molecular Weight : 482.5
Target : PKC
Solubility : 10 mM in DMSO



Biological Activity

UCN-01 (7-Hydroxystaurosporine, NSC 638850) is a synthetic derivative of staurosporine and **PKC** inhibitor, has antiproliferative activity against several in vitro and in vivo cancer models.

UCN-01 inhibits a variety of kinases, including Akt, PKC (IC₅₀=30 nM), PDK1 (IC₅₀=6 nM), CDKs (IC₅₀=300-600 nM for Cdk1 and Cdk2).

UCN-01 arrests tumor cells in the G1/S phase of the cell cycle and prevents nucleotide excision repair by Chk1 (IC₅₀=7 nM). UCN-01 induces apoptosis.

References

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Peifer C, et al. *ChemMedChem.* 2008 Dec;3(12):1810-38.

Facchinetti MM, et al. *Cancer Res.* 2004 May 15;64(10):3629-37.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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